AMBALA COLLEGE OF ENGINEERING AND APPLIED RESEARCH DEPTT. OF COMPUTER SCIENCE & ENGINEERING LECTURE PLAN- (CSE-101N)							
NAME OF FACULTY:		Dr. Poonam Rana (Theory)			Dr. Poonam Rana (Practical)		
DESCIPLINE:		B.Tech Computer Science & Engineering					
SEMESTER:		VI					
SUBJECT:		Software Engineering					
LESSON PLAN DURATION:		13 WEEKS (8 January- 20 April, 202	20)				
	1	L:T:P- 3:1:3		Deseties			
	Theory			Practica	1		
We ek	Lecture No.	Topic (including assignment & Test)	Pr No	act ical D.	Topic (including Viva-voce)		
1ST	1 2	Introduction to Software Engineering Software Characteristics, Software Crisis	1		To identify the role of the software in today's world across a few significant		
	3	The Evolving role of Software			domains related today to day		
	4	Software Development Life Cycle (SDLC) Models: Water Fall	-		life		
2ND	5	Prototype Model, Spiral Model	2	To identify the problem			
	6	Evolutionary Development Models, Iterative Enhancement			related to software crisis for a given scenario		
	7	RAD, V Model					
	8	Revision Unit I					
3RD	9	Software Requirement Specification	3	3	To classify the requirement into functional and non- functional requirements		
	10	Sessional Test I					
	11	Requirement Engineering Process: Elicitation, Analysis, Documentation					
	12	Review and Management of User Needs					
4TH	13	Feasibility Study	4	4	To implement at least four software metrics		
	14	Data Flow Diagrams, Decision Tables					
	15	SRS Document, IEEE Standard for SRS					
	16	Software Quality, Concept of Software Quality Assurance					
5TH	17	SEI-CMM Model	5	5	Preparation of		
	18	Introduction to Software Risk Management			requirement document for Library Management		
	19	Software Configuration Management			System		
	20	Revision of Unit II					
	21	Basic Concept of Software Design	6				

6TH	22	Modularization, Design Structure Charts		To prepare Project Schedule for Library Management System in standard format	
	23	Pseudo Codes, Flow Charts			
	24	Coupling and Cohesion			
7TH	25	Design Strategies: Function Oriented Design	7	To implement the functional testing techniques	
	26	Object Oriented Design			
	27	Top-Down and Bottom-Up Design			
	28	Software Measurement and Metrics			
8TH	29	Various Size Oriented Measures	8	To implement the structural testing techniques	
	30	Halstead's Software Science			
	31	Function Point (FP) Based Measures			
	32	СОСОМО			
9TH	33	Cyclomatic Complexity Measures	9	To identify different types of performance testing.	
	34	Control Flow Graphs			
	35	Revision of Unit III			
	36	Sessional Test II			
10TH	37	Software Construction fundamentals	10	to identify the usage of sanity testing.	
	38	minimizing complexity			
	39	Top-Down Programming			
	40	Bottom – Up programming			
11TH	41	structured programming	11	To understand usage of Software metrics.	
	42	Compliance with Design and Coding Standards			
	43	Testing Objectives			
	44	Unit Testing, Integration Testing, system testing			
12TH	45	Acceptance Testing, Regression Testing	12	To classify the given defects into given defect types.	
	46	Structural Testing, Functional Testing, debugging			
	47	Maintenance: key issues			
	48	Types of software Maintenance			
13TH	49	Cost of Maintenance	13	To map the listed activities	
	50	Software Re-Engineering		to the project management phases.	
	51	Revision of Unit IV			
	52	Sessional Test III	1		

(Teacher Signature with Date)